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C APPENDIX: AGGREGATE DOMESTIC PELAGIC LONGLINE AND RECREATIONAL ATLANTIC WHITE MARLIN FISHING MORTALITY ESTIMATES 2001 - 2004

Table C.1 Estimated Domestic Aggregate Pelagic Longline Atlantic White Marlin Mortalities in Numbers of Fish 2001-2004. Source: Pelagic Longline Logbook; Kerstetter, 2006

Year	Reported Atlantic PLL Killed/ Dead Discard	Reported Atlantic PLL Live Releases	Estimated PLL Post-Release Mortalities (PRM)*	Annual Estimate
2001	267	617	343.1	610.1
2002	456	989	549.9	1,005.9
2003	275	539	299.7	574.7
2004	305	755	353.9	658.9
Sub-Totals	1,303	2,900	1,546.6	2,849.6
Estimated Aggregate PLL WHM Mortality	2,849.6			
Estimated Average Annual Aggregate PLL White Marlin Mortality	712.4			

* Various post-release mortality rates were applied by hook type (55.6% for J-hook; 27.7% for circle hook per Kerstetter, 2005), area, and time period, as appropriate. J-hook PRM rates were applied to PLL live releases for 2001, 2002, 2003, and January – June (inclusive) 2004. J-hook PRM rates were applied to non-NED PLL live releases for July 2004. Circle hook PRM rates were applied to NED PLL live releases for July 2004. Circle hook PRM rates were applied to PLL live releases for all areas for August – December (inclusive) 2004.

Table C.2 **Estimated Domestic Aggregate Recreational Atlantic White Marlin Mortalities, in Number of Fish, as Derived from the RBS Database by Combining Retained Fish and Dead Discarded Fish with Estimated Post-Release Mortalities (PRM) (applying a 35% post-release mortality estimate) 2001-2004.** Source: Recreational Billfish Survey; Horodysky, 2005

Year	RBS Kept	RBS Discarded Dead	RBS Live Releases	RBS Estimated PRM	Estimated Total Annual Recreational White Marlin Mortality
2001	22.0	0.0	1,306	457.1	479.1
2002	33.0	0.0	2,207	772.5	805.5
2003	20.0	0.0	614	214.9	234.9
2004	25.0	0.0	1,349	472.2	497.2
Sub-Totals	100.0	0.0	5,476	1,916.6	2,016.6
Estimated Aggregate Domestic Recreational White Marlin Mortality	2,016.6				
Estimated Average Annual Aggregate Recreational White Marlin Mortality	504.15				

Table C.3 **Estimated Domestic Aggregate Recreational Atlantic White Marlin Mortalities, in Number of Fish, as Derived from the MRFSS Database by Combining Retained Fish and Dead Discarded Fish with Estimated Post-Release Mortalities (PRM) (applying a 35% post-release mortality estimate) 2001-2004.** Source: Marine Recreational Fishing Statistics Survey; Horodysky, 2005

Year	MRFSS Kept	MRFSS Discarded Dead	MRFSS Live Releases	MRFSS Estimated PRM	Estimated Total Annual Recreational White Marlin Mortality
2001	0.0	0.0	11,255	3,939.3	3,939.3
2002	0.0	0.0	4,633*	1,621.6	1,621.6
2003	0.0	0.0	339*	118.7	118.7
2004	0.0	0.0	7,060*	2,471.0	2,471.0
Sub-Totals	0.0	0.0	23,287	8,150.5	8,150.5
Estimated Aggregate Domestic Recreational White Marlin Mortality	8,150.5				
Estimated Average Annual Aggregate Recreational White Marlin Mortality	2,037.6				

*Data not available from all areas in that year.

Table C.4 **Estimated Domestic Aggregate Recreational Atlantic White Marlin Mortalities, in Number of Fish, as Derived from the LPS Database by Combining Retained Fish and Dead Discarded Fish with Estimated Post-Release Mortalities (PRM) (applying a 35% post-release mortality estimate) 2001-2004.** Source: Large Pelagics Survey; Horodysky, 2005; Large Pelagic Survey; Horodysky, 2005

Year	LPS Kept	LPS Discarded Dead	LPS Live Releases	LPS Estimated PRM	Estimated Total Annual Recreational White Marlin Mortality
2001	4.0	0.0	703	246.1	250.1
2002	218.0	0.0	5,616	1,965.6	2,183.6
2003	365.0	0.0	3,069	1,074.2	1,439.2
2004	78.0	0.0	5,573	1,950.6	2,028.6
Sub-Totals	665.0	0.0	14,961	5,236.5	5,091.5
Estimated Aggregate Domestic Recreational White Marlin Mortality	5,901.5				
Estimated Average Annual Aggregate Recreational White Marlin Mortality	1,475.4				